

1. (Twice amended) A fluid flow control system for an electromagnetic pump, the control system comprising:
an electromagnetic drive within a compressor, wherein the control system supplies a pulse width modulated drive signal to the electromagnetic drive so as to provide a predetermined pump flow rate, and wherein the drive signal is generated by a dc voltage supply.

8. (Twice amended) A fluid flow control system for an electromagnetic pump, the control system comprising;
an electromagnetic drive within a compressor, wherein the control system supplies a pulse width modulated low voltage drive signal of substantially fixed amplitude to the electromagnetic drive, wherein the electromagnetic drive includes coils having current, and wherein the pulse width modulated low voltage drive signal controls amplitude and repetition rate of the current in the coils of the electromagnetic drive to drive an actuator of the compressor in order to generate a desired flow rate output from the compressor.

9. (Twice amended) A fluid flow control system for an electromagnetic pump, the control system comprising;
an electromagnetic drive within a compressor, wherein the control system further comprises:
a command generator that creates a command signal corresponding to a predetermined desired fluid flow rate;
at least one sensor to ascertain the status of the system and provide at least one feedback signal,
wherein the command signal and the at least one feedback are processed by a command processor, wherein the command processor outputs a drive signal defined by a mark-space ratio, a repetition rate, and an amplitude, and wherein the drive signal controls voltage applied to compressor windings.